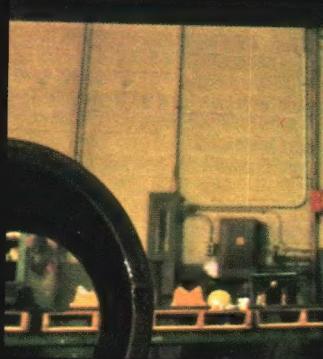
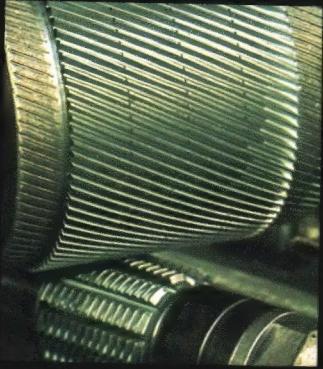
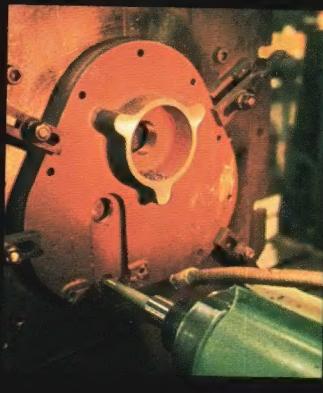
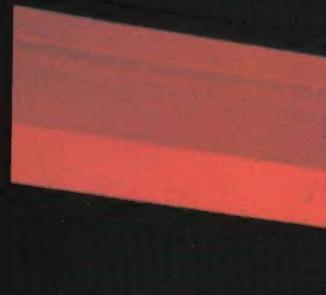


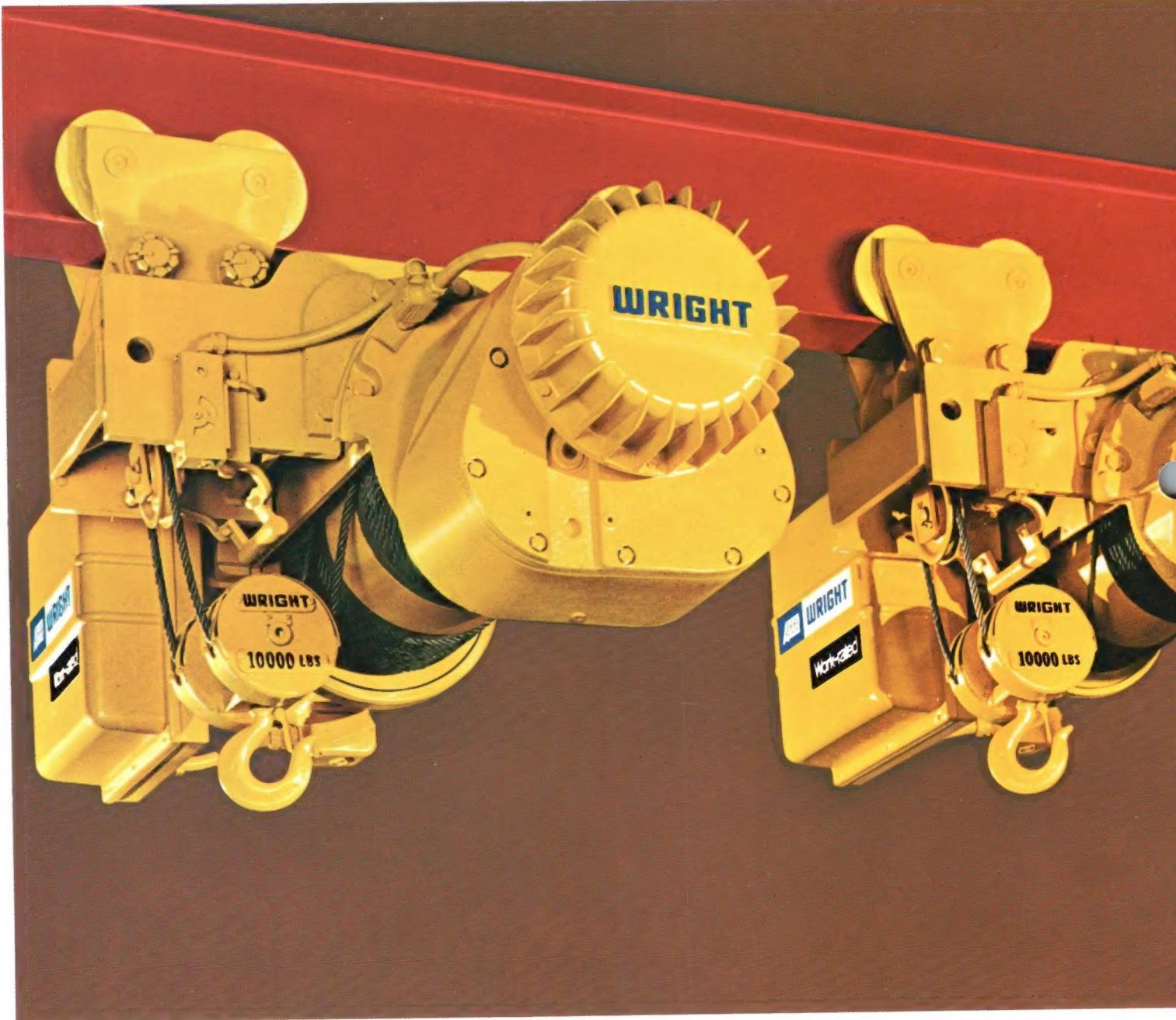


Work-rated® Hoists  
1 to 20 Tons Capacity



This is a 5-ton  
hoist.  
Severe-duty

This is a 5-ton  
hoist.  
Heavy-duty



# This is a 5-ton hoist. Normal-duty



## Introducing a whole new way to think about hoists.

There's no good reason why all hoists with the same capacity rating should be the same size. Instead, a hoist should be the right size for the job it has to do.

Here, for the first time, is a complete line of *standard* electric wire rope hoists based on this concept. We call them *Work-rated*.® You save money because you don't buy more hoist than you need, and you avoid the high maintenance costs and production downtime that result when you buy less hoist than you need.

Different hoist users often have vastly different requirements. Three basic factors determine whether you need a normal-duty, heavy-duty or severe-duty hoist.

### 1. Weight of normal load

Hoists aren't normally required to pick up a full capacity load every time they're used. They generally pick up occasional loads at, or just below full capacity, and all other loads at or below 65% of full capacity.

### 2. Lifting distance

Lifting a load from the floor to a tabletop (or vice-versa) doesn't require the hoist (motor, brakes, gearing, bearings) to be "on" for more than a few seconds. But lifting a load to a platform 30 ft. above the floor increases that "on" time dramatically.

### 3. Lifts per hour

This is the other factor which, along with lifting distance, determines a hoist's "on" time. Many lifts covering short distances may require less "on" time than a few lifts over a long distance.

You probably know right now how the hoist you plan to purchase will be used, based on the three factors described above. With the *Wright*® *Work-rated*® line, those needs will determine the hoist you select. To learn how this works, just turn the page.

# How to buy just the hoist you need—no more, no less.

If you're only going to use your electric wire rope hoist for normal service, you shouldn't have to pay for a heavy- or severe-duty model. On the other hand, if you're going to work your hoist very hard, a hoist designed for normal service will cause you costly maintenance headaches and production loss very quickly.

Now, Acco offers a brand-new line of *Work-rated* electric wire rope hoists which includes *standard* normal-duty models, *standard* heavy-duty models, and *standard* severe-duty models. A simple selection process assures that you buy no more hoist than you need.

If you have a specific application for a wire rope hoist in mind right now, you can learn which of these three *Wright Work-rated* models you need. Here's how:

## 1. How will the hoist be used?

- Average load will be 65% of hoist capacity or less. Occasional lifts will be made at or near full hoist capacity.
- Average load will be greater than 65% of hoist capacity. More frequent lifts will be at or near full hoist capacity. If you checked this box, be sure to review the selection with your *Wright* distributor.

## 2. How far must loads normally be lifted (or lowered)?

If loads are to be lifted from the floor to a workbench, the average distance is 3 ft. If they're normally lowered from a mezzanine 9 ft. above the floor, use that figure. For varying distances, use an average figure. (Height of ceiling or hoist plays no part in this calculation.)

<input type="checkbox"/> 1-3 ft.	<input type="checkbox"/> 12-15 ft.
<input type="checkbox"/> 4-7 ft.	<input type="checkbox"/> 16-19 ft.
<input type="checkbox"/> 8-11 ft.	<input type="checkbox"/> 20-30 ft.

## 3. How many times will the hoist be used in a typical hour?

If the hoist is used extensively for two hours of a shift, report total times used for *one* of those hours. Don't average those lifts over a whole shift.

<input type="checkbox"/> 1-4 times	<input type="checkbox"/> 15-19 times
<input type="checkbox"/> 5-9 times	<input type="checkbox"/> 20-24 times
<input type="checkbox"/> 10-14 times	<input type="checkbox"/> 25-29 times

## 4. Select duty service of hoist required.

On the chart on the next page, see where your Lifts per hour just selected intersects with your Typical lifting distance. This shows that you need a normal-duty (green), heavy-duty (yellow) or severe-duty (red) hoist.

This chart covers more than 90% of all electric wire rope hoist applications. If one or more of your requirements go beyond the limits shown, contact your *Wright* distributor for more detailed application assistance.

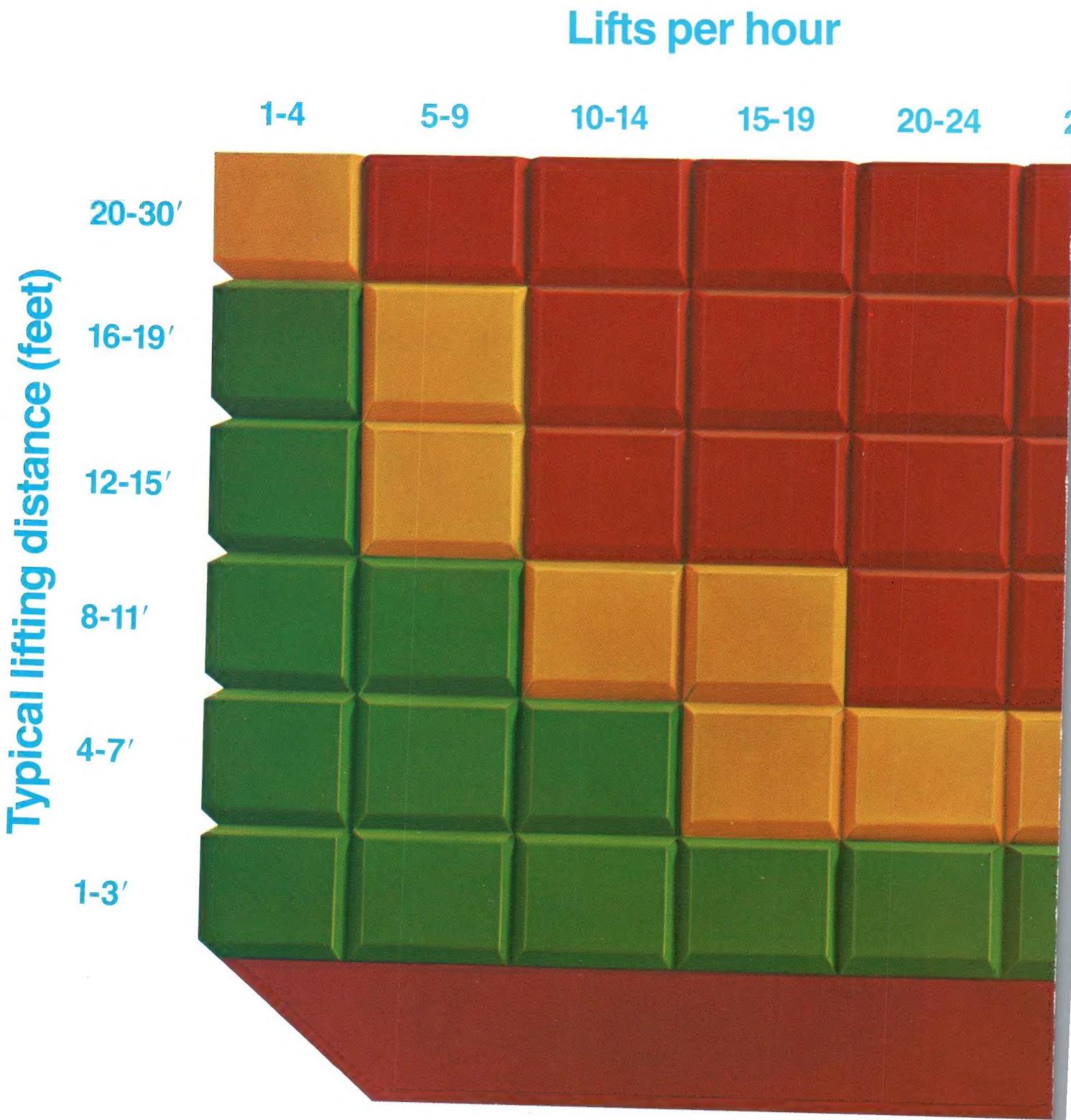
## 5. Select Work-rated hoist required from table.

Determine maximum capacity hoist required. Then using the color code obtained from step 4, select the hoist needed for your application. Review this selection with your *Wright* distributor. He'll see that your hoist is delivered with the proper mounting (lug, plain trolley or motorized trolley), motor (single; 2-speed or variable speed), reeving, and other special features you may require.

### Example:

A metal fabricating shop needs a wire rope hoist to move sheet and plate to a welding area. Maximum capacity required is five tons for lifting of welded assemblies. Most lifts are less than half capacity. Lifting distance is eight to eleven feet during the transporting of the loads. The hoist is used ten to fourteen times an hour, even though it may be idle for half a shift. According to the *Wright Work-rated* hoist selector, this results in a yellow rating which means the shop needs a heavy-duty 5-ton hoist. Going to the Brief Specifications chart, a selection of hoists with various lifting distances and speeds is found. The product number selection will be made from catalog data sheets by the *Wright* distributor who will review the selection for special mounting requirements, controls, reeving and accessories.

# Work-rated Hoist Selector



# Brief specifications

25-29

Capacity	Standard headroom (parallel mounted)		Close headroom (cross mounted)	
	Lifting speeds	Lifting distance range	Lifting speeds	Lifting distance range
10,000			22, 30	18-48
15,000			22, 30	22-49
20,000	20	16-62	20, 22, 30	15-57
2,000	16, 21	12-38	16, 21	15
3,000	16, 20, 30, 40	19-48	20, 30, 40	13-30
4,000	11, 20, 30, 45	19-115	20, 30	13-76
6,000	10, 15, 20, 22, 30	11-108	22, 30	23-61
8,000	40	20-124	40	20-65
10,000	20, 22, 30, 40, 50, 60	17-176	20, 22, 30, 40, 50, 60	76-84
12,000	11, 15, 40	16-120	11, 15	16-29
15,000	20, 22, 30, 40, 50	24-160	20, 22, 30, 40, 50	15-78
20,000	11, 15, 20, 30, 40	16-130	20, 30, 40	15-71
30,000	11, 15, 20, 25	20-71	11, 15, 20, 25	15-40
40,000	10, 15, 20	17-52	10, 15, 20	13-37
4,000	30	22-115	30	31-76
8,000	22, 30	20-124	22, 30	20-65
10,000	11, 15, 30, 40	17-143	11, 15, 30, 40	16-68
12,000	40	31-68	40	31-68
15,000	15	16-62	15	15-31
20,000	15, 20	24-71	15, 20	15-34

Normal-Duty

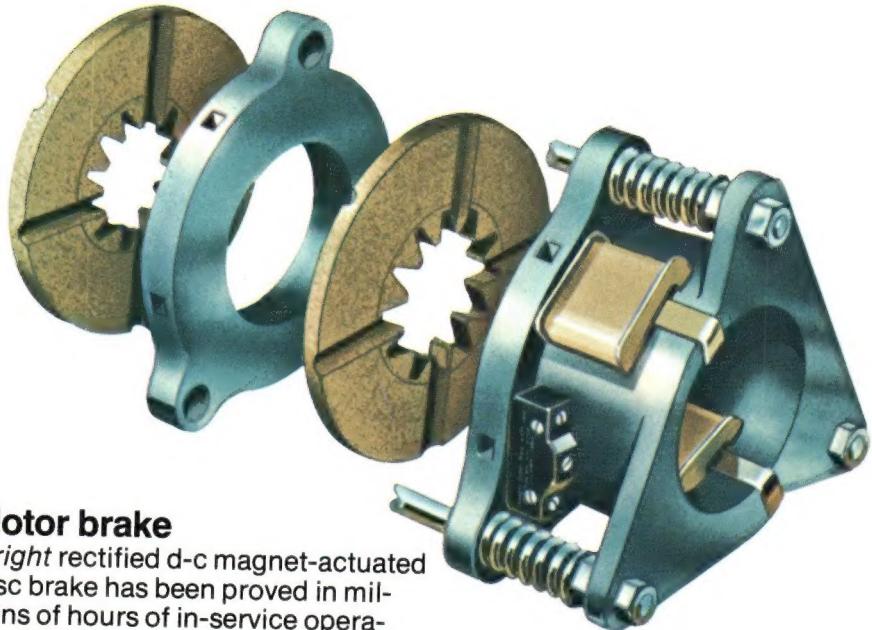


Heavy-Duty

Severe-Duty

**Note:** Always review work rating selection with your *Wright* distributor who will make correct product number selection from catalog data sheets. Abbreviated listing shown. Distributor has complete selection.

**Warning:** Regardless of duty service, the maximum capacity of a hoist displayed on the nameplate must never be exceeded.



## Gear train

Quiet, compact helical gearing and external spur drum gear are enclosed in the same oil-tight housing. All gearing is machine cut, heat-treated alloy steel with shock-resistant ductile cores. Gearing is designed to AGMA standards for maximum life, and operates in an oil bath. Rugged aluminum alloy housing provides rapid heat dissipation.

## Bearings

Precision heavy-duty ball bearings support all shafts. All bearings are either splash lubricated, or lifetime pre-lubricated and sealed.

## Hook

Drop forged heat-treated steel hook swivels 360° on a shielded roller thrust bearing. Spring latch is standard.

## Wire rope

Either improved plow steel (IPS), or extra improved plow steel (XPS) is supplied.

## Controls

Choose from single-, 2-speed or 5-step variable speed. Controls are magnetic reversing type, mechanically and electrically interlocked with 115-v control circuit. All wiring conforms to applicable NEC and CSA requirements. Included are time delay fuses for branch circuit overcurrent protection and motor running overcurrent protection. NEMA Type 3R enclosures are standard. Cover is lightweight, tough, ABS material, deep-drawn for maximum control accessibility.

## Limit switch

A gravity-type upper hook travel limit switch is provided. The unit is equipped with an automatic momentary lowering circuit. An optional geared limit switch which can be factory or field mounted is also available.

## Motor brake

*Wright* rectified d-c magnet-actuated disc brake has been proved in millions of hours of in-service operation. It delivers rapid stops with minimum or zero hook drift. Aluminum alloy cover is finned and separated from gear housing for rapid cooling. This multiple coil brake is rated a minimum of 150% of full load motor torque.

Exclusive brake-sensing microswitch prevents motor from operating against the brake. It also prevents motor from operating when brake requires adjustment.



## Overload cutoff

Exclusive patented *Wright* unit is standard on all *Work-rated* hoists except single-line models. Protects load, hoist and operator by interrupting raising circuit when hoist is overloaded. When overload is lowered and removed, the unit automatically resets.



## Mechanical load brake

Automatic Weston-type multiple disc brake can hold a full capacity load independent of motor brake. This brake assures that load does not accelerate while being lowered. No wear compensation adjustment is required.

## Motor

Standard NEMA flange, Class B insulation, 30-minute duty motor is provided for standard commercial power supplies. The motor has a standard NEMA shaft extension.

## Drum

The large diameter steel drum has deep machined grooves and large flanges. At least two full turns of rope remain on the drum at the lowest hook position of rated lift.

# Work-rated hoists for every need.



The *Wright* line of *Work-rated* hoists is a completely new line of electric wire rope hoists. It is an advanced design incorporating the most recent materials and concepts. The most current duty cycle and safety requirements of potential users are *built into* this new line, not added on.

## Family concept

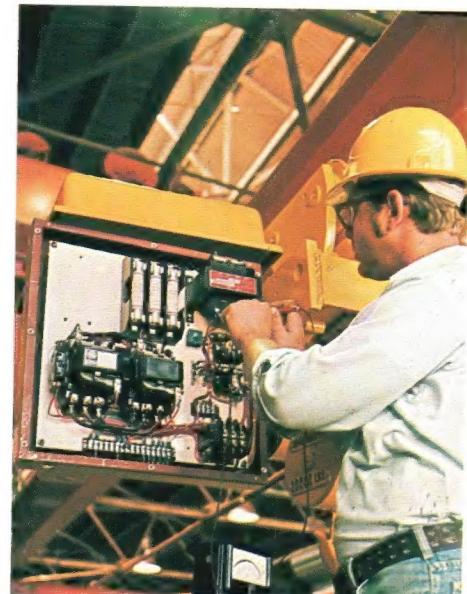
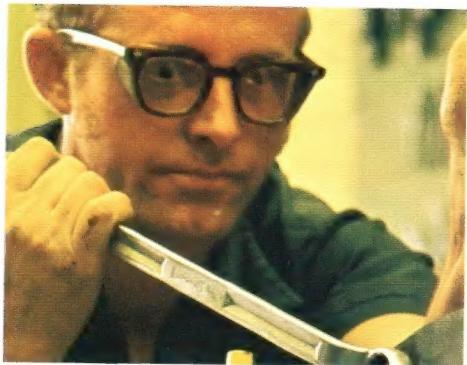
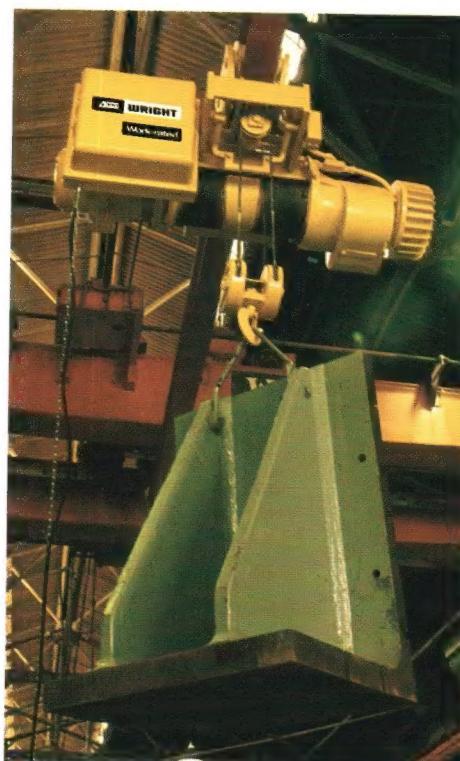
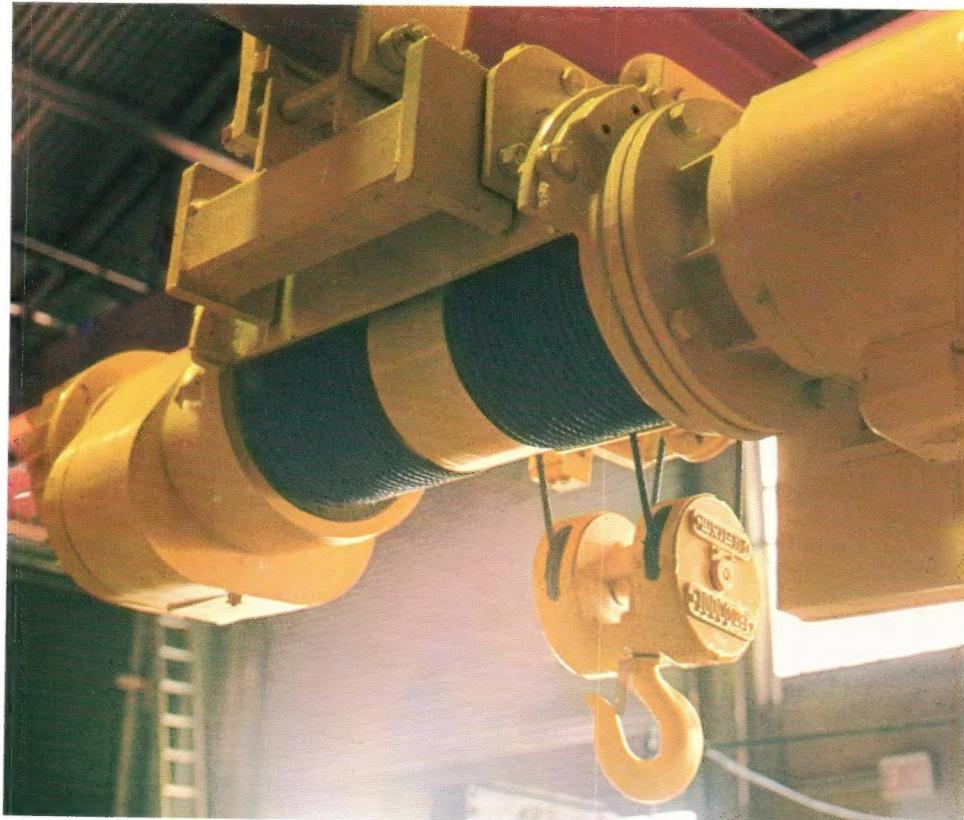
The general configuration of a 2,000 lb. capacity *Wright Work-rated* hoist is the same as that of a 30,000 lb. model. This makes it the most complete family of electric wire rope hoists available.

Plant maintenance men therefore have a much easier time working with *Wright Work-rated* hoists. This unified design approach has also been fully tested in the field for reliability.

## Optional equipment

Your authorized *Wright* distributor has full specifications, clearance drawings and product data on *Wright Work-rated* hoists, modifications and accessories. These mechanical and electrical options meet a wide range of user requirements.

# National service



The best hoist service is the kind that's available before you need it. For equipment subject to strain, constant wear and continuous use, this is service of real value. It's the kind Acco puts solidly behind *Wright Work-rated* hoists. Our service actually starts on the drawing board and carries through production and testing of the final product.

*Wright Work-rated* hoist users are also assured prompt, qualified repair service through a nationwide network of authorized stocking master parts distributors and repair centers. Strategically located in all major trading areas, these centers have been selected for their competence and dependability.

# Product development, manufacturing and support.

## Engineering and you

The concept of a *Work-rated* line of hoists started with you, the prospective user. Engineering logic dictates that you should only buy as much hoist as you need for a given application, no more, no less.

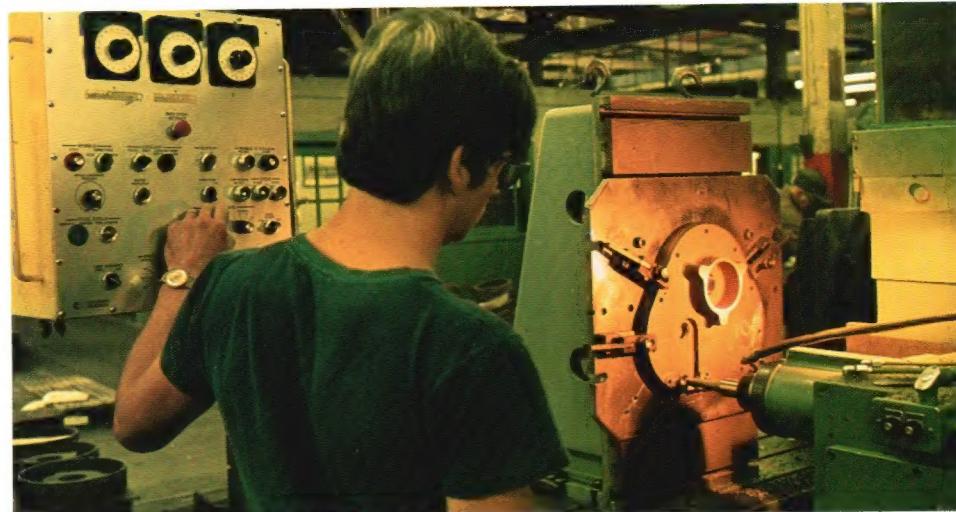
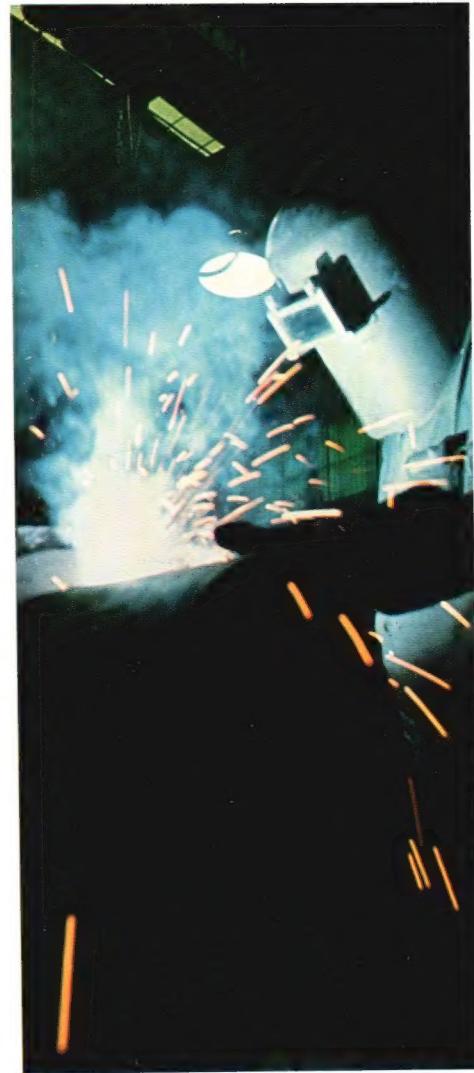
Starting with this premise, Acco launched a major engineering program to develop the product line described in these pages. Field surveys, computer analysis and a review of current and anticipated federal regulations were all key to this effort, along with rigorous laboratory and field testing.

The resulting product merits consideration by any company with a need for a wire rope hoist in the 2,000 to 40,000 lb. capacity range.

## Work-rated manufacturing

*Wright Work-rated* hoists are built in a modern, 200,000 square foot facility, devoted solely to the production of *Wright* hoists and overhead cranes. A skilled work force and totally modern manufacturing equipment, much of it numerically controlled, assure excellent product quality.

*Work-rated* hoists meet or exceed our interpretation of all existing applicable national safety codes and specifications, including Hoist Manufacturers Institute specifications for electric wire rope hoists HMI 100-74 and ANSI B30.16-1973 "Safety Standards for Overhead Hoists" and the National Electric Code.



## Quality testing and control

Inspection and quality control procedures for all *Wright Work*-rated hoists range from basic capacity tests in our plant to sophisticated dimensional checking. Constant inspection assures you a reliable product.

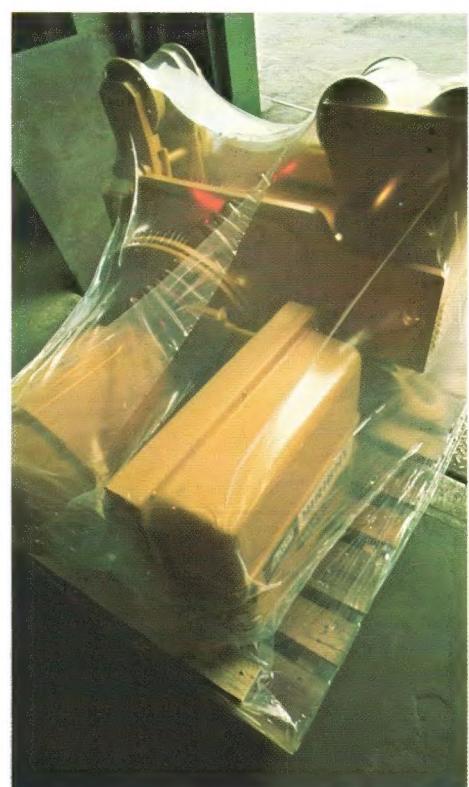
## Technical support

Experienced industrial distributors are the backbone of the Acco sales force. They are fully equipped with the tools and training to answer questions you may have about *Wright Work*-rated hoists. The distributor organization is strongly supported by factory representatives and strategically located warehouses, parts depots and repair centers.



## See-thru protection

Your new *Wright Work*-rated hoist is delivered shrink-wrapped with tough, abrasion- and weather-resistant polyethylene film.



Member of Hoist Manufacturers Institute, Crane Manufacturers Association of America, American Supply & Machinery Manufacturers Association Inc., Material Handling Equipment Dealers Association, Monorail Manufacturers Association, and Below the Hook Lifters Product Section of MHI.



## Distributed by:



## Chain & Lifting Products Division

A member of the Acco Material Handling Group

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